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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/767,257	01/30/2004	Bjarne Frederiksen	033452-011	4864	
21839 75	90 08/25/2006		EXAM	EXAMINER	
BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404			JIANG, CH	JIANG, CHEN WEN	
	A, VA 22313-1404	ART UNIT	PAPER NUMBER		
			3744		
			DATE MAILED: 08/25/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
· .	10/767,257	FREDERIKSEN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Chen-Wen Jiang	3744	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 15 Mi 2a)⊠ This action is FINAL. 2b)□ This 3)□ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 2,6,7,10,12 and 15-20 5) Claim(s) is/are allowed. 6) Claim(s) 1,3-5,8,9,11,13 and 14 is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or		ation.	
Application Papers	•		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 30 January 2004 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer of original transfer origin	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Species IV (Fig.8, claims 1,3-5,8,9,11,13 and 14) in the reply-filed on 5/15/2006 is acknowledged.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1,3-5,8,9,11,13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over D64646 (NPL of IDS filed 1/30/2004) in view of Danfoss (EP 923,013 and NPL of IDS 1449 filed 1/30/2004).

In regard to claims 1,8,9 and 11, D64646 discloses cooling and heating ceiling system in combination with dew-point sensor. The system comprises heat exchangers, dew-point sensor B1 (monitor device) and valve with continuous control with controller N1. There are four methods for preventing dew formation on the cooling ceiling: passive de-point monitoring, "central"

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active dew-point monitoring with passive room dew-point monitoring, active room dew-point monitoring and "central" active dew-point monitoring with active room dew-point monitoring. D64646 discloses the invention substantially as claimed. The dew-point sensor senses the humidity change and provides ON/OFF signal (including closed state) to the controller to control the valve in the passive condensate monitoring. Danfoss discloses thermal valve drive and magnetic valve drive. However, D64646 does not disclose the mechanical valve adjustment mechanism. Danfoss discloses mechanical valve adjustment mechanism in the same field of endeavor for the purpose of controlling coolant. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the apparatus of D64646 with a valve adjustment mechanism in view of Danfoss so as to control the coolant. The teaching of monitoring device about the condensation, controller and cooling ceiling installation are disclosed by D64646 and the mechanical valve adjustment is disclosed by Danfoss.

In regard to claim 3, Danfoss disclose different sensor with valve control device as claimed, e.g.; integrated sensor, remote sensor, motor/gear arrangement, position sensor and tappet.

In regard to claims 4 and 5, Danfoss discloses rotary motor 19,119 and gear 17,117.

In regard to claim 13, D-64646 discloses a heating system is provided to the controlled valve (page 6).

In regard to claims 13 and 14, Danfoss (NPL, page 1) discloses heating surface, valve RA-N connected to valve RA-C.

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Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chen-Wen Jiang whose telephone number is (571) 272-4809. The examiner can normally be reached on Monday-Thursday from 8:00 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chen-Wen Jiang Primary Examiner

